INCLOSED I send you an interesting vegetable production, having a deceptive resemblance to white dressed glove-leather, and which was found by M. Lindner on a meadow above the wire-factory at Schwartzenberg in the Erzgebirge.

A green slimy substance grew on the surface of the stagnant waters in the meadow, which, the water being slowly let off, deposited itself on the grass, dried, became quite colourless, and might then be removed in large pieces. The outside of this natural production, as you will observe, resembles soft dressed glove-leather, or fine paper, is shining, smooth to the touch, and of the toughness of common printing-paper+. On the inner side, which was in contact with the water, it has a lively green colour, and one can still distinguish green leaves, which have formed the leather-like pellicle. I dare say a botanist could still determine the *species* to which they belong.

I have made the following experiments on the leather-like substance, having separated it from the green inner coat.

It catches fire very easily, burns with a wax-yellow flame, leaving a pale-red rough light ash. When heated in a small retort dense white fumes are evolved, an odour of burnt paper is perceived, and simultaneously drops of a yellow empyreumatic oil are deposited on the neck of the retort. Somewhat later, water, having a strong acid action, is given off, which evaporates without leaving any residue. A light charcoal remains in the bottom of the retort.

Water, alcohol, æther, nitric acid and aqua regia have no action on it, nothing being dissolved, nor does its texture alter when heated with these re-agents. A solution of hydrate of potassa dissolves it to a brown slimy fluid; caustic ammonia has at first only a slight action, but after some days it swells out, becomes like wet printing paper, and is partially altered.

^{*} We are indebted for this communication, and for a specimen of the substance described, to the kind attention of Prof. Kersten. The original appeared in Poggendorff's 'Annalen,' Part I. 1839.—R. T.

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Thus the ash of the substance in question is composed essentially of silica, oxide of manganese and oxide of iron. The substance itself appears to be an aggregation of leaves, from which the green colouring matter, the extractive matter, and also the organic matters have by some organic process entirely disappeared.

I shall endeavour to find out the circumstances under which this complete discoloration of the ligneous matter of the leaves takes place, for this is interesting in a technical point of view.

Postscript by Prof. Ehrenberg.

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Thus the silica is quite explained, as well as a part of the iron, of which last another part, as also the manganese, may arise from a little dust which lies in irregular particles with the infusoria among the confervæ. I have treated more circumstantially, before the Academy of Sciences, of the meteoric paper of 1686, which I found to be similar to this in composition.

XXXIX.—Contributions towards a Flora of Van Diemen's Land; from collections sent by R. W. Lawrence and Ronald Gunn, Esqrs., to Sir W. J. Hooker. By the Rev. M. J. Berkeley, M.A., F.L.S.

(A sequel to Sir W. J. Hooker's Paper; Journal of Botany, p. 258.)

[With a Plate.] FUNGI.

- 1. Lentinus villosus, Kl. in Linn. Found also in Mauritius.
- 2. Favolus pusillus, Fr., Linn. vol. v. p. 511. tab. xi. fig. 2. var. pallidus, Nob. Minute, not $\frac{1}{4}$ an inch broad. Pileus horizontal, reniform, smooth, of a tough fleshy substance, brittle when dry, ochraceous, furnished with a short lateral cylindrical stem of the same colour as the pileus. Hymenium pale. Alveoli at length elongated, flexuous; gills vein-like; their edges pruinose.

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